L Number	Hits	Search Text	DB	Time stamp
Numper 1	300030	(laminar\$4 or turbulen\$4 or wind or	EPO; JPO;	2003/11/14
•	300030	windage or drag\$4 or eddy or eddie\$1 or	DERWENT	09:54
		skin adj friction or vortice\$1 or uncontrol\$5	DERWENT	U3:54
		1		
		or unsetti\$6 or turbid\$5 or disorder\$5 or		
		chaotic\$5 or chaos\$2 or rough\$4 or		
		disrupt\$7or agitat\$7 or tumultuous\$3) and		
		(air or airflow\$3 or wind or windage or		
2	EE0E04	circulat\$5 or fluid\$3 or current\$1 or flow\$3)		0000144144
2	550501	g11b\$.ipc.	EPO; JPO;	2003/11/14
•	4700	// · · · · · · · · · · · · · · · · · ·	DERWENT	09:55
3	4722	((laminar\$4 or turbulen\$4 or wind or	EPO; JPO;	2003/11/14
		windage or drag\$4 or eddy or eddie\$1 or	DERWENT	09:55
		skin adj friction or vortice\$1 or uncontrol\$5		
		or unsettl\$6 or turbid\$5 or disorder\$5 or		
		chaotic\$5 or chaos\$2 or rough\$4 or		
		disrupt\$7or agitat\$7 or tumultuous\$3) and		
		(air or airflow\$3 or wind or windage or		
		circulat\$5 or fluid\$3 or current\$1 or		
_		flow\$3)) and g11b\$.ipc.		
4	48371	v adj shap\$3	EPO; JPO;	2003/11/14
_			DERWENT	09:55
5	17	(((laminar\$4 or turbulen\$4 or wind or	EPO; JPO;	2003/11/14
		windage or drag\$4 or eddy or eddie\$1 or	DERWENT	10:01
		skin adj friction or vortice\$1 or uncontrol\$5		
		or unsettl\$6 or turbid\$5 or disorder\$5 or		
		chaotic\$5 or chaos\$2 or rough\$4 or		
		disrupt\$7or agitat\$7 or tumultuous\$3) and		
		(air or airflow\$3 or wind or windage or		
		circulat\$5 or fluid\$3 or current\$1 or		
		flow\$3)) and g11b\$.ipc.) and (v adj shap\$3)		
6	284716	(supporter or load adj beam or spring adj	EPO; JPO;	2003/11/14
		arm or HGA or HSA or FSA or suspension or	DERWENT	10:26
		load\$3 adj arm or jimbal or gimbal or		
		flexure or g11b005/48.ipc. or		
		g11b005/49.ipc. or g11b005/54.ipc. or		
		g11b005/55.ipc. or g11b005/58.ipc. or		
		g11b005/596.ipc. or g11b005/60.ipc. or		
	!	g11b021/16.ipc. or g11b021/20.ipc. or		
		g11b021/21.ipc.)		

7	360	(((laminar\$4 or turbulen\$4 or wind or	EPO; JPO;	2003/11/14
		windage or drag\$4 or eddy or eddie\$1 or	DERWENT	10:25
		skin adj friction or vortice\$1 or uncontrol\$5		
		or unsettl\$6 or turbid\$5 or disorder\$5 or		
		chaotic\$5 or chaos\$2 or rough\$4 or		
		disrupt\$7or agitat\$7 or tumultuous\$3) and		
		(air or airflow\$3 or wind or windage or		
		circulat\$5 or fluid\$3 or current\$1 or		
		flow\$3)) and g11b\$.ipc.) and ((supporter or		
		load adj beam or spring adj arm or HGA or		
		HSA or FSA or suspension or load\$3 adj arm		
		or jimbal or gimbal or flexure or		
		g11b005/48.ipc. or g11b005/49.ipc. or		
		g11b005/54.ipc. or g11b005/55.ipc. or		
		g11b005/58.ipc. or g11b005/596.ipc. or		
		g11b005/60.ipc. or g11b021/16.ipc. or		
		g11b021/20.ipc. or g11b021/21.ipc.))		
8	1968	(laminar\$4 or turbulen\$4 or wind or	IBM_TDB	2003/11/14
		windage or drag\$4 or eddy or eddie\$1 or		10:40
		skin adj friction or vortice\$1 or uncontrol\$5		
		or unsettl\$6 or turbid\$5 or disorder\$5 or		
		chaotic\$5 or chaos\$2 or rough\$4 or		
		disrupt\$7or agitat\$7 or tumultuous\$3 or		
		vortex\$2 or disturb\$6) and (air or airflow\$3		
		or wind or windage or circulat\$5 or fluid\$3		
		or current\$1 or flow\$3)		
9	13284	(supporter or load adj beam or spring adj	IBM_TDB	2003/11/14
		arm or HGA or HSA or FSA or suspension or		10:26
		load\$3 adj arm or jimbal or gimbal or		
		flexure or g11b005/48.ipc. or		
		g11b005/49.ipc. or g11b005/54.ipc. or		
		g11b005/55.ipc. or g11b005/58.ipc. or		
		g11b005/596.ipc. or g11b005/60.ipc. or		
		g11b021/16.ipc. or g11b021/20.ipc. or		
		g11b021/21.ipc.) or dasd or disc or disk or		
	1	record\$3		

10					
11 32059 ((laminar\$4 or turbulen\$4 or wind or windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$7or agitat\$7 or turmultuous\$3 or vortex\$2 or disturb\$6) and (air or airflow\$3 or curren\$1 or flow\$3)).tl,ab. 38579 360/\$.ccls. USPAT; US-PGPUB 10:41 US-PGPUB 10:41 US-PGPUB 10:41 US-PGPUB 10:41 US-PGPUB 10:41 US-PGPUB 10:50 USPAT; US-PGPUB 10:41 10:50 USPAT; US-PGPUB 10:41 10:45 U	10	404	windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$7 or agitat\$7 or tumultuous\$3 or vortex\$2 or disturb\$6) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3)) and ((supporter or load adj beam or spring adj arm or HGA or HSA or FSA or suspension or load\$3 adj arm or jimbal or gimbal or flexure or g11b005/48.ipc. or g11b005/49.ipc. or g11b005/54.ipc. or g11b005/596.ipc. or g11b005/50.ipc. or g11b005/60.ipc. or g11b021/16.ipc. or g11b021/20.ipc. or g11b021/21.ipc.) or dasd	IBM_TDB	
12 38579 360/\$.ccls. 13 285 (((laminar\$4 or turbulen\$4 or wind or windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$70r agitat\$7 or tumultuous\$3 or vortex\$2 or disturb\$6) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3)).ti,ab.) and 360/\$.ccls. 14 11 ("4175275" "4189759" "4378922" "5130871" "5378524" "5677815" "5854725" "5999372" "6366432" "6397699" "6473271").PN. 15 4 ("04109468" or "05174523").pn. or EPO; JPO; 2003/11/14	11	32059	((laminar\$4 or turbulen\$4 or wind or windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$7or agitat\$7 or tumultuous\$3 or vortex\$2 or disturb\$6) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3	1	
windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$7or agitat\$7 or tumultuous\$3 or vortex\$2 or disturb\$6) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3)).ti,ab.) and 360/\$.ccls. 11 ("4175275" "4189759" "4378922" "5130871" "5378524" "5677815" "5854725" "5999372" "6366432" "6397699" "6473271").PN. 15 4 ("04109468" or "05174523").pn. or EPO; JPO; 2003/11/14	12	38579		1	
14	13	285	windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$7or agitat\$7 or tumultuous\$3 or vortex\$2 or disturb\$6) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3).ti,ab.) and	,	
15 4 ("04109468" or "05174523").pn. or EPO; JPO; 2003/11/14	14	11	("4175275" "4189759" "4378922" "5130871" "5378524" "5677815" "5854725" "5999372" "6366432"	USPAT	
	15	4	("04109468" or "05174523").pn. or	1 ' '	

27	("4473855" "4583213" "4587645" "4650138" "4660110" "4723186" "4769727" "5107626" "5212679" "5386955" "5446612" "5453890" "5504646" "5566943" "5854725" "5860626" "5891551" "5901928" "5909339" "5933294" "5973883" "5999372" "6097568" "6125003"	USPAT	2003/11/14 10:53
5	"6193191" "6201664" "6381101").PN. ("4718285" "5408372" "5454158"	USPAT	2003/11/14 10:54
3	5973883.URPN.	USPAT	2003/11/14 10:55
332	slider and klimowicz	USPAT	2003/11/14 11:00
104	slider.ab. and klimowicz	USPAT	2003/11/14 11:03
2513700	comb or actuator or carriage or e adj block or swing adj arm or vcm or ((voice or drive or driving) adj2 coil) or ((oscillat\$4 or linear) adj2 motor) or magnetic adj g11b\$.ipc. circuit or coil\$1 near3 bobbin or (magnet\$1 near6 yoke\$1) or ((oscillat\$4 or magnetic) adj2 rotor) or ((electro adj magnet\$3 or electromagnet\$3) adj2 (drive or driving)) or g11b021/02.ipc.	EPO; JPO; DERWENT	2003/11/14 11:04
858	((laminar\$4 or turbulen\$4 or wind or windage or drag\$4 or eddy or eddie\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsettl\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$7or agitat\$7 or tumultuous\$3) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3)) and g11b\$.ipc. and (comb or actuator or carriage or e adj block or swing adj arm or vcm or ((voice or drive or driving) adj2 coil) or ((oscillat\$4 or linear) adj2 motor) or magnetic adj g11b\$.lpc. circuit or coil\$1 near3 bobbin or (magnet\$1 near6 yoke\$1) or ((oscillat\$4 or magnetic) adj2 rotor) or ((electro adj magnet\$3 or electromagnet\$3) adj2 (drive or driving)) or g11b021/02.ipc.	EPO; JPO; DERWENT	2003/11/14 11:04
	5 3 332 104 2513700	"4650138" "4660110" "4723186" "4769727" "5107626" "5212679" "5386955" "5446612" "5453890" "5504646" "5566943" "5854725" "5860626" "5891551" "5901928" "5909339" "5933294" "5973883" "5999372" "6097568" "6125003" "6193191" "6201664" "6381101").PN. 5 ("4718285" "5408372" "5454158" "5455727" "5461525").PN. 3 5973883.URPN. 332 slider and klimowicz 2513700 comb or actuator or carriage or e adj block or swing adj arm or vcm or ((voice or drive or driving) adj2 coil) or ((oscillat\$4 or linear) adj2 motor) or magnetic adj g11b\$.ipc. circuit or coil\$1 near3 bobbin or (magnet\$1 near6 yoke\$1) or ((scillat\$4 or magnetic) adj2 rotor) or ((electro adj magnet\$3 or electromagnet\$3) adj2 (drive or driving)) or g11b021/02.ipc. 858 ((laminar\$4 or turbulen\$4 or wind or windage or drag\$4 or eddy or eddle\$1 or skin adj friction or vortice\$1 or uncontrol\$5 or unsett\$\$6 or turbid\$5 or disorder\$5 or chaotic\$5 or chaos\$2 or rough\$4 or disrupt\$70r agitat\$7 or tumultuous\$3) and (alr or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3)) and g11b\$.ipc. and (comb or actuator or carriage or e adj block or swing adj arm or vcm or ((voice or drive or driving) adj2 coil) or ((oscillat\$4 or linear) adj2 motor) or magnetic adj g11b\$.ipc. circuit or coil\$1 near3 bobbin or (magnet\$1 near6 yoke\$1) or ((oscillat\$4 or magnetic) adj2 rotor) or ((electro adj magnet\$3) or electromagnet\$3) adj2 (drive or driving)) or g11b021/02.ipc.	"4650138" "4660110" "4723186" "4769727" "5107626" "5212679" "5386955" "5446612" "5453890" "5504646" "5566943" "5854725" "5860626" "5891551" "5901928" "5993339" "59933294" "5973883" "5999372" "6097568" "6125003" "6193191" "6201664" "6381101"),PN. 5 ("4718285" "5408372" "5454158" "5455727" "5461525"),PN. 3 5973883.URPN. 332 slider and kilmowicz USPAT 104 slider.ab. and kilmowicz USPAT 105 silder.ab. and kilmowicz USPAT 106 slider.ab. and kilmowicz USPAT 107 skin adj gram or vem or ((voice or drive or driving) adj2 coil) or ((oscillat\$4 or linear) adj2 motor) or (lascillat\$4 or magnetic) adj2 rotor) or ((electro adj magnet\$3) and (ali or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3) and g11b\$, ipc. and (comb or actuator or carriage or e adj block or swing adj arm or vem or ((voice or drive or driving)) or g11b021/02.ipc. B58 ((laminar\$4 or turbulen\$4 or wind or windage or circulat\$5 or chaos\$2 or rough\$4 or disrupt\$70r agitat\$7 or tumultuous\$3) and (air or airflow\$3 or wind or windage or circulat\$5 or fluid\$3 or current\$1 or flow\$3) and g11b\$, ipc. and (comb or actuator or carriage or e adj block or swing adj arm or vem or ((voice or drive or driving) adj2 coil) or ((oscillat\$4 or linear) adj2 motor) or magnetic adj g11b\$, ipc. circuit or coil\$1 near3 bobbin or (magnet\$1 near\$6 yoke\$1) or ((oscillat\$4 or magnetic) adj2 rotor) or ((electro adj magnet\$3 or electromagnet\$3) adj2 (drive or driving)) or g11b021/02.ipc.

23	134	(channel\$1 or groove\$1 or rib\$1 or indent\$5	EPO; JPO;	2003/11/14
		or recess\$4 or depression\$1 or flange\$1 or	DERWENT	11:38
		laminar or turbulen\$4 or airflow\$3 or air adj		
		flow\$3) and (((laminar\$4 or turbulen\$4 or		
		wind or windage or drag\$4 or eddy or		
		eddie\$1 or skin adj friction or vortice\$1 or		
		uncontrol\$5 or unsettl\$6 or turbid\$5 or		
		disorder\$5 or chaotic\$5 or chaos\$2 or		
		rough\$4 or disrupt\$7or agitat\$7 or		
		tumultuous\$3) and (air or airflow\$3 or wind		
		or windage or circulat\$5 or fluid\$3 or		
		current\$1 or flow\$3)) and g11b\$.ipc. and		
		(comb or actuator or carriage or e adj block		
		or swing adj arm or vcm or ((voice or drive		
		or driving) adj2 coil) or ((oscillat\$4 or		
	-	linear) adj2 motor) or magnetic adj		
		g11b\$.ipc. circuit or coil\$1 near3 bobbin or		
		(magnet\$1 near6 yoke\$1) or ((oscillat\$4 or		
		magnetic) adj2 rotor) or ((electro adj		
		magnet\$3 or electromagnet\$3) adj2 (drive		
		or driving)) or g11b021/02.ipc.		
)		
)		
24	3	bernoulli and klimowicz	USPAT	2003/11/14
				11:38
25	27	("3178719" "3179945" "3327916"	USPAT	2003/11/14
		"3927252" "4071854" "4074330"		11:39
		"4158867" "4159494" "4334302"		
		"4376960" "4419704" "4769733"		
		"4833556" "4961123" "4998175"		
		"5005098" "5077726" "5091812"		
		"5279775" "5283773" "5293287"		
		"5322987" "5334849" "5359590"		
		"5362941" "5459708" "5717551").PN.		